AMENDMENTS TO THE CLAIMS

1 to 22. (Canceled)

23. (Currently Amended) A method of producing an electrolytic capacitor comprising: an anode layer formed of a valve metal foil having through holes formed therethrough and a coarsened surface, a dielectric layer of an oxide film formed by anodizing a part of the surface of the valve metal foil, and a cathode conductive polymer layer formed on the dielectric layer, and an electric collector, wherein the method comprises steps of:

forming the through holes through the valve metal foil;

attaching one electrolyzing electrode to one side surface of the valve metal foil;

immersing the valve metal foil in a conductive monomer solution where an another electrolyzing electrode is disposed in the solution apart from the opposite side of the valve metal foil with respect to the one electrolyzing electrode;

electrolyzing the solution between the one electrolyzing electrode and the another electrolyzing electrode to polymerize the monomer;

generating an electrolytically-formed conductive polymer, starting on the one electrolyzing electrode side;

making the electrolytically-formed conductive polymer grow through the through hole in the thickness direction of the valve metal foil <u>thereby forming a cathode</u>; and

covering the surface of the another electrolyzing electrode side of the oxide film on the valve metal foil by the electrolytically-formed conductive polymer, as the cathode conductive polymer layer and

said electric collector being a metal foil formed on one side of the anode layer via the cathode-side conductive polymer layer.

24. (**Previously Presented**) The method according to Claim 23, wherein the electrolyzing electrode is a cathode-side conductive polymer layer, the electrolytically-formed conductive polymer layer and the cathode-side conductive polymer layer being used as a cathode layer of the capacitor.

25. (Canceled)

- **26.** (**Previously Presented**) The method according to Claim 23, wherein the method, prior to the polymerizing step, comprises a step of partly forming a conductive layer on the surface of the dielectric layer.
- **27.** (**Previously Presented**) A method of producing a laminated electrolytic capacitor, wherein the method further comprises steps of:

laminating a plurality of the electrolytic capacitors produced by the method according to Claim 23 to obtain a laminate;

connecting a common anodic wiring electrode to the metal surface portion of each valve metal foil of the laminate; and,

connecting a common cathodic wiring electrode to each electrolytically-formed conductive polymer layer of the laminate.

28. (**Previously Presented**) A method of producing a laminated electrolytic capacitor, wherein the method comprises steps of:

laminating a plurality of the electrolytic capacitors produced by the method according to Claim 24 to obtain a laminate;

connecting a common anodic wiring electrode to the metal surface portion of each valve metal foil of the laminate; and,

connecting a common cathodic wiring electrode to each cathode-side conductive polymer layer of the laminate.

29. (**Previously Presented**) A method of producing an electrolytic capacitor, wherein the method comprises steps of:

laminating a plurality of the electrolytic capacitors produced by the method according to Claim 25 to obtain a laminate;

connecting a common anodic wiring electrode to the metal surface portion of each anode valve metal foil of the laminate; and,

connecting a common cathodic wiring electrode to each cathode electric collector of the

laminate.

- 30. (Previously Presented) The method of producing an electrolytic capacitor according Claim 27, wherein the method further comprises a step of anodizing a part of the anode valve metal foil again, after the metal surface portion is connected to the anodic wiring electrode and before one of the electrolytically-formed conductive polymer layer, the cathode-side conductive polymer layer and the cathode electric collector is electrically connected to the cathodic wiring electrode.
- 31. (Previously Presented) The method of producing a electrolytic capacitor according to Claim 23, wherein the method further comprises a step of winding an electrolytic capacitor in the shape of a coil.
- **32.** (**Previously Presented**) The method of producing an electrolytic capacitor according to Claim 31, wherein the method further comprises a step of anodizing a part of the anode valve metal foil again, after the electrolytic capacitor is wound in the shape of coil.
- **33.** (**Previously Presented**) The method according to claim 23 wherein said valve metal foil comprises aluminum.
- **34.** (**Previously Presented**) The method according to claim 23 wherein said valve metal foil comprises tantalum.
- **35. (Previously Presented)** The method according to claim 23 wherein said valve metal foil comprises niobium.
 - 36. (Canceled)